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NEWS OF THE TECHNICAL ADMINISTRATION FOR CONSTRUCTION AND INSTALLATION

G. V.

Spacing of Power Transmission Line Supports

The State Trust for Steam Electric Power Planning (Teploelektroproekt) has issued instructions for carrying out a program for altering the present spacing of power transmission line supports and has produced a cost accounting for this work. These instructions were approved by the Technical Administration for Construction and Installation on 26 January 1950.

The instructions give details of the order in which regions will site the centers of the supports and shafts and lay out the run of the power transmission lines.

Pre-operational Testing of Hydroelectric Power Units

The Special Hydroelectric Installation Trust (Spetsgidromontazh) has issued a standard program for the pre-operational testing of hydroelectric power units, which lays down the order in which these tests are to be carried out. The instructions have been approved by the Technical Administration for Construction and Installation.

The standard program covers the pre-operational testing of hydroelectric power equipment, hydroelectric turbines, the mechanical part of generators, speed regulators, turbine shut-off valves and other auxiliary machinery. It also gives a general survey of pre-operational tests on hydroelectric power units.

Plenum of the Electrical Machine Station of VNITOE (All-Union Scientific and Technical Society of Power Engineering

A plenum of the Electric Machines Section of VNITOE, dedicated to the 25th anniversary of Soviet turboelectric generator construction, was held in March 1950 at Leningrad and presided over by M. P. Kostenko, Corresponding Member, AN SSSR (Academy of Science of the USSR).

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Representatives of MEP (Ministry of the Electrical Industry), MES (Ministry of Electric Power Stations), "Elektrosila" Plant, Khar'kov Turboelectric Generator Plant, LMZ (Leningrad Metallurgical Plant imeni Stalin), ENIN (Power Engineering Institute) of AN SSSR, LPI (Leningrad Polytechnic Institute imeni Kalinin), MEI (Moscow Power Engineering Institute imeni Molotov), TsNIEL (Central Scientific Research Laboratory of Electrical Engineering) of MES, Mosenergo (Moscow Power System), Lenenergo (Leningrad Power System), the Stalinogorsk GRES (State regional electric power station) and other institutes, power systems, and enterprises were present.

The following reports were heard and discussed:

1. "Perspectives for Developing Turboelectric Generator Building," by the MEP representative, Chief Engineer F. K. Arkhangel'skiy of the "Elektrosila" Plant.

2. "Testing of Soviet Constructed Turboelectric Generators and MES Turboelectric Generator Requirements," by the deputy director of the MES Administration, I. A. Syromyatnikov.

3. "Perspectives for Developing Steam Turbine Building and Turboelectric Generator Building Requirements," by the Main Administration of the Boiler and Turbine Industry representative, L. D. Frenkel'.

4. "Thermal and Electromagnetic Characteristics of Hydrogen-Cooled Turboelectric Generators," by the ENIN, AN SSSR, representative, N. A. Polyak.

5. "KhTGZ (Khar'kov Turboelectric Generator Plant) Turboelectric Generators," by the deputy chief engineer of KhTGZ, L. Ya. Stanislavskiy.

6. "New Turboelectric Generators of the "Electrosila" Plant," by the deputy chief designer of the "Elektrosila" Plant, V. V. Titov.

In the discussions, representatives of operational and maintenance enterprises, I. T. Kalita (Stalinogorsk GRES), F. V. Terekhin (Mosenergo), G. L. Vul'man (Technical Administration of MES), L. G. Mamikonyan (TsNIEL), L. A. Mirenburg (Soyuzenergoremont), and others, gave advice on turboelectric generator operation, pointed out certain defects in various types of machine, and submitted a number of requirements.

The plenum recognized the great successes of Soviet turboelectric generator building which is the best in the world. It adopted a resolution embodying a number of decisions designed to improve and develop Soviet turboelectric generator building and to introduce the following new techniques to raise the quality of production:

1. To increase research work at the "Electrosila" and KhTGZ plants, TsNIEL, MES, and in electric power systems to solve problems concerning asynchronous and unsymmetrical conditions, self-synchronization, a working analysis of hydrogen-cooled machines with a view to simplifying their operation, operation with hydrogen at various pressures, and further improvement in component parts of these machines and others.

2. To standardize the principal installation specifications for turboelectric generators built at different plants.

3. To shorten the pre-operational period by installing dessicators in turboelectric generators in a stationary condition.

4. To use double excitation boosters and double rate of increase of excitation.

5. To accept the design of a new series of turboelectric generators in which the overheat temperatures of the rotor coils do not exceed 90-95° C.

6. To submit a project for a new GOST (State All-Union Standard) for turboelectric generators for examination by the electrical machine section of VNITOE.

At the final meeting of the plenum, the accounts report was read by the president of the electrical machine section of VNITOE, Ye. Ya. Kazovskiy. Reports were also made by the representative of MONITOE (Moscow Scientific and Technical Society of Power Engineers), Doctor of Technical Sciences G. N. Petrov, and of KhONITOE (Khar'kov Scientific and Technical Society of Power Engineers), Engineer L. Ya. Stanislavskiy.

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